

JUL 18 2006

Application No.: 10/713174

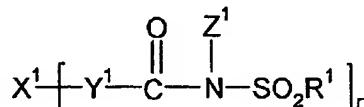
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Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A compound of Formula I:



I

wherein

$\text{X}^1$  is a substrate-reactive functional group selected from a carboxy, halocarbonyl, halocarbonyloxy, cyano, hydroxy, mercapto, isocyanato, halosilyl, alkoxysilyl, acyloxysilyl, azido, aziridinyl, tertiary amino, primary aromatic amino, secondary aromatic amino, disulfide, alkyl disulfide, benzotriazolyl, phosphene, phosphoroamido, or phosphato;

$\text{Y}^1$  is a divalent group comprising at least one heteroalkylene having an oxy group or a  $-\text{NR}^{\text{d}}-$  group, at least one alkylene, or combinations thereof, wherein  $\text{Y}^1$  can optionally further comprise an arylene, carbonyl, carbonyloxy, carbonylimino, oxy,  $-\text{NR}^{\text{d}}-$  where  $\text{R}^{\text{d}}$  is hydrogen or alkyl, or combinations thereof;

$\text{Z}^1$  is an alkyl, aryl, or  $-(\text{CO})\text{R}^{\text{a}}$  wherein  $\text{R}^{\text{a}}$  together with  $\text{R}^1$  and groups to which they are attached form a five membered heterocyclic group having a nitrogen heteroatom and a sulfur heteroatom, wherein said heterocyclic group can be fused to an optional benzene ring;

$\text{R}^1$  is an alkyl, fluoroalkyl, chloroalkyl, aryl,  $\text{NR}^{\text{b}}\text{R}^{\text{c}}$  wherein  $\text{R}^{\text{b}}$  and  $\text{R}^{\text{c}}$  are each an alkyl group, or  $\text{R}^1$  together with  $\text{R}^{\text{a}}$  and the groups to which they are attached form the five membered heterocyclic group that can be used to the optional benzene ring;

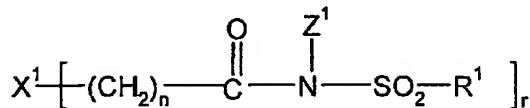
$\text{r}$  is equal to 1 when  $\text{X}^1$  is a monovalent group or equal to 2 when  $\text{X}^1$  is a divalent group; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

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2. (Original) The compound of claim 1, wherein the compound has a formula

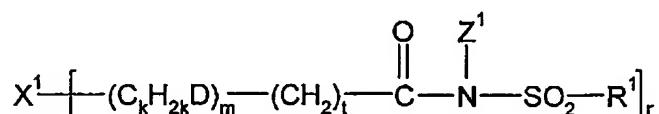


wherein

$n$  is an integer of 1 to 100; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

3. (Previously presented) The compound of claim 1, wherein the compound has a formula



wherein

$D$  is oxygen or NH;

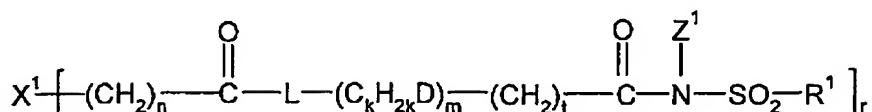
$t$  is an integer of 0 to 12;

$k$  is an integer of 2 to 4;

$m$  is an integer of 1 to 200; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

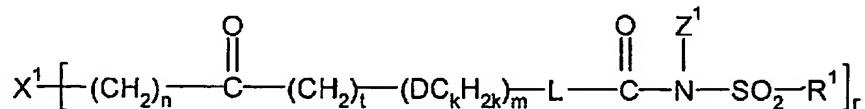
4. (Previously presented) The compound of claim 1, wherein the compound has a formula



or

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wherein

D is oxygen or NH;

n is an integer of 1 to 100;

m is an integer of 1 to 200;

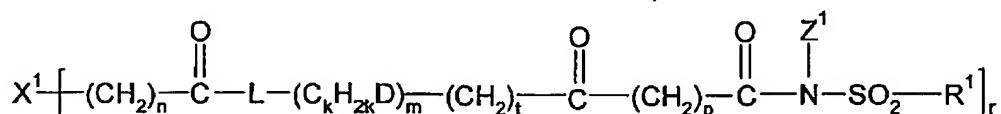
t is an integer of 0 to 12;

k is an integer of 2 to 4;

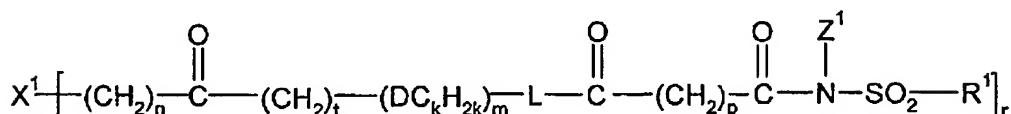
L is oxygen or NR<sup>d</sup> where R<sup>d</sup> is hydrogen or alkyl; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

5. (Previously presented) The compound of claim 1, wherein the compound is of formula



or



wherein

D is oxygen or NH;

n is an integer of 1 to 100;

m is an integer of 1 to 200;

t is an integer of 0 to 12;

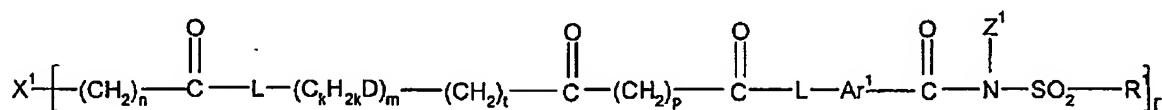
k is an integer of 2 to 4;

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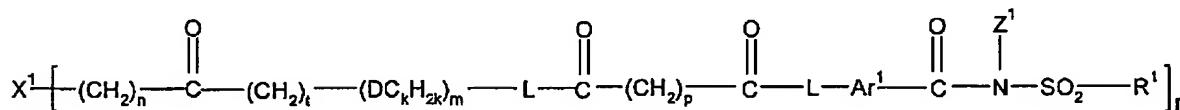
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p is an integer of 1 to 10;  
 L is oxygen or NR<sup>d</sup> where R<sup>d</sup> is hydrogen or alkyl; and  
 said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

6. (Previously presented) The compound of claim 1, wherein the compound is of formula



or



wherein

D is oxygen or NH;  
 n is an integer of 1 to 100;  
 m is an integer of 1 to 200;  
 t is an integer of 0 to 12;  
 k is an integer of 2 to 4;  
 p is an integer of 1 to 10;  
 L is oxygen or NR<sup>d</sup> where R<sup>d</sup> is hydrogen or alkyl;  
 Ar<sup>1</sup> is an arylene; and  
 said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

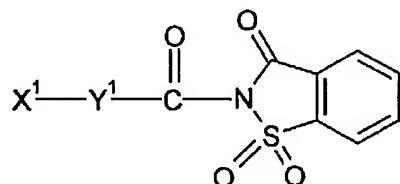
7. (Original) The compound of claim 1, wherein Z<sup>1</sup> is a C<sub>1-10</sub> alkyl and R<sup>1</sup> is a C<sub>1-10</sub> fluoroalkyl.

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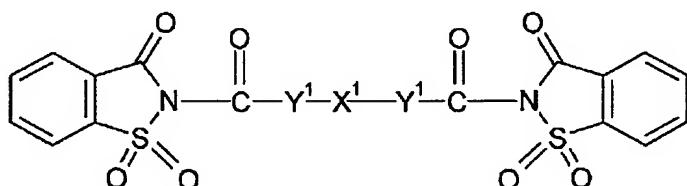
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8. (Original) The compound of claim 1, wherein  $Z^1$  is an aryl and  $R^1$  is a  $C_{1-10}$  fluoroalkyl.

9. (Original) The compound of claim 1, where the compound is of formula

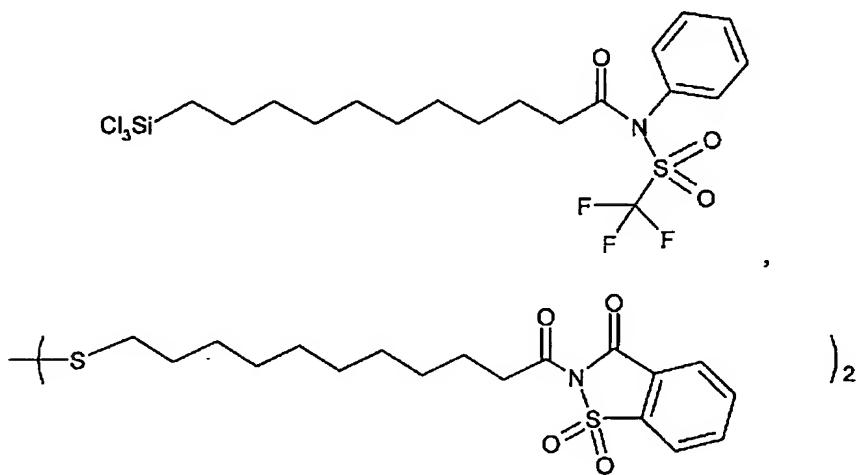


where  $X^1$  is monovalent or



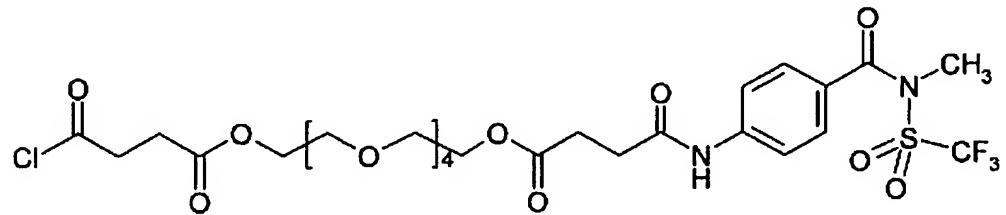
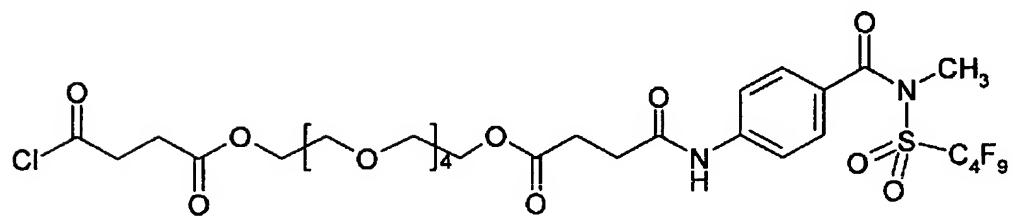
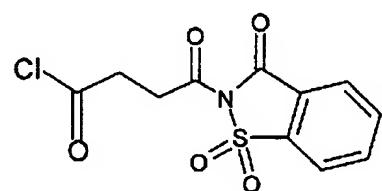
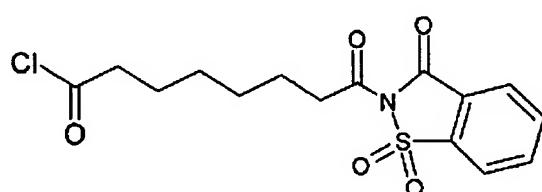
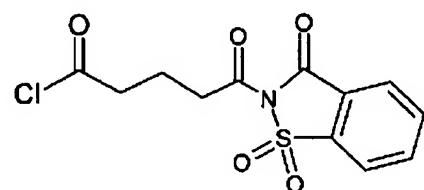
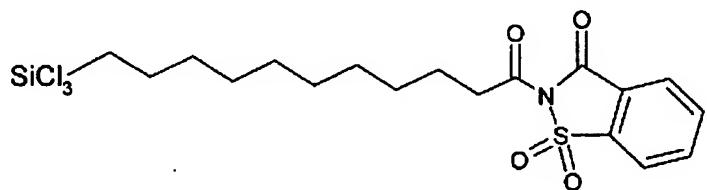
where  $X^1$  is divalent and said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

10. (Original) The compound of claim 1, wherein the compound is



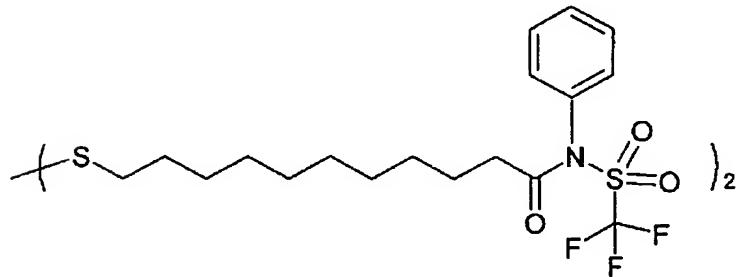
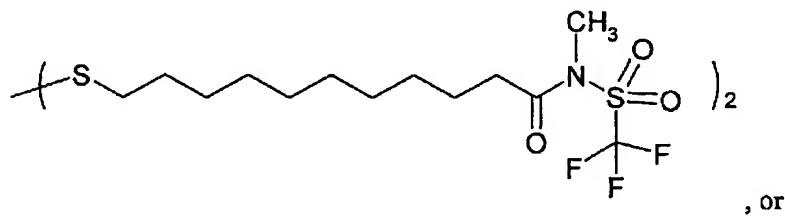
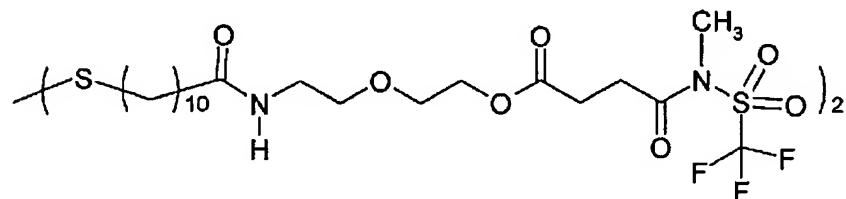
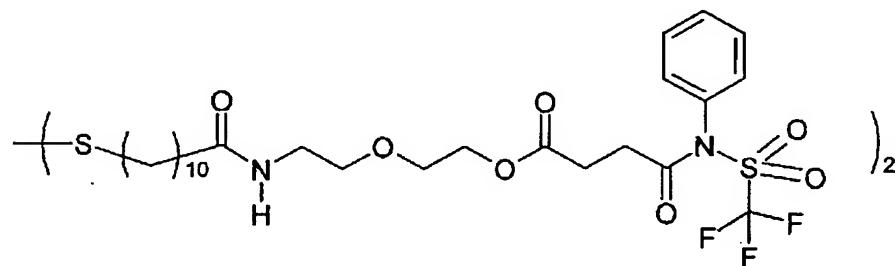
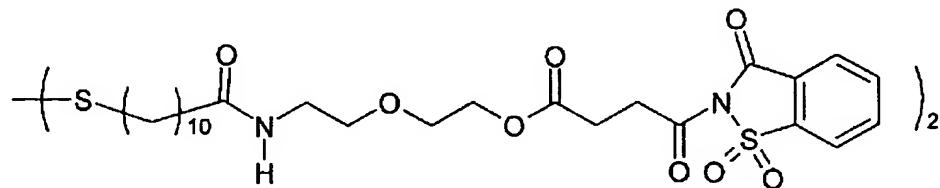
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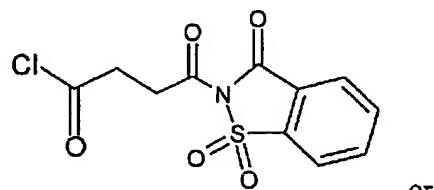
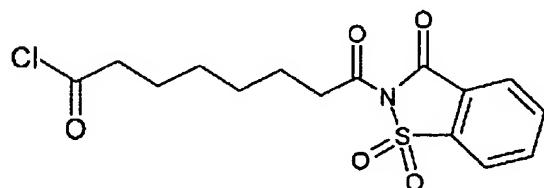
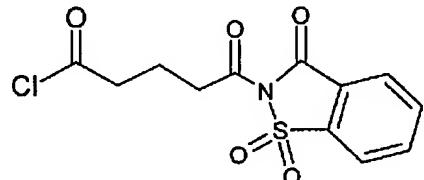
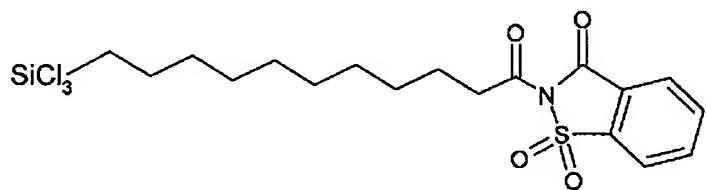
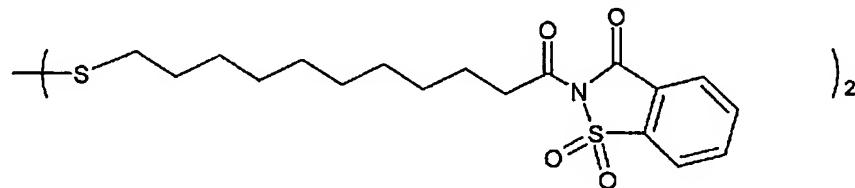


said compound being unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

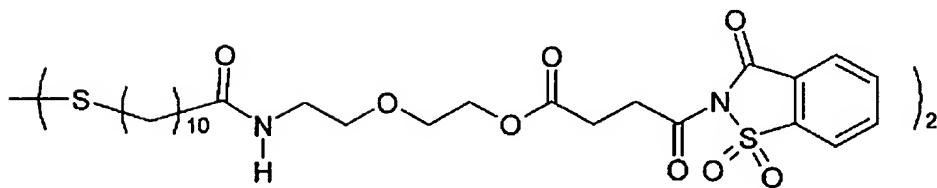
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11. (Original) The compound of claim 1, wherein the compound is



, or

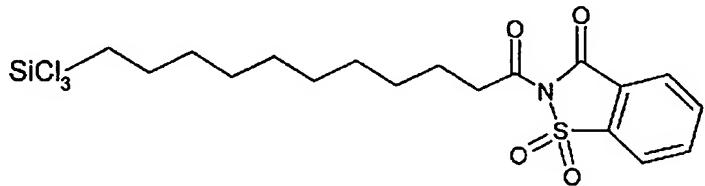


said compound being unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

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12. (Original) The compound of claim 1, wherein the compound is



13. (Previously presented) The compound of claim 1, wherein Y<sup>1</sup> comprises at least one heteroalkylene and at least one alkylene.

14. (Previously presented) The compound of claim 1, wherein Y<sup>1</sup> comprises at least one alkylene.

15. (Previously presented) The compound of claim 1, wherein Y<sup>1</sup> comprises at least one heteroalkylene having an oxy group or a -NR<sup>d</sup>- group.

16. (Previously presented) The compound of claim 1, wherein X<sup>1</sup> is halosilyl, alkoxy silyl, or acloxy silyl.

17. (Previously presented) The compound of claim 1, wherein X<sup>1</sup> is disulfide or alkyl disulfide.

18. (Previously presented) The compound of claim 1, wherein Z<sup>1</sup> is -(CO)R<sup>a</sup> wherein R<sup>a</sup> together with R<sup>1</sup> and groups to which they are attached form a five membered heterocyclic group that is optionally fused to a benzene ring.

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